

ALUMINUM LIGHT POLE WITH 6' BRACKET AND T-BASE

I. Quantity

The base bid shall include the indicated number of aluminum poles furnished and erected as hereinafter specified and located as shown on the drawings.

II. Material

The aluminum poles shall be as follows:

The street light pole shall consist of a round, tapered, spun aluminum shaft having a base welded to the lower end, complete with bolts, a transformer base, a single arm (6' bracket as specified) and a pole top. The complete unit shall be designed for wind loading of at least 101 M.P.H.

The transformer base shall be approximately 20" high, 16-3/8" square at the bottom and 12-3/4" square at the top. The door opening shall be approximately 8-3/4" x 9-1/4" x 13." The door shall be attached to the base with a stainless steel piano hinge. The hinge shall be placed at the top of the door and attached to the base and the door with stainless steel rivets. The door shall be held in place with a tamper resistant fastener at the bottom. Each base shall be provided with four (4) loose bearing plates and nuts to fasten it to the anchor bolts. The transformer base shall be fasten to the shaft with four (4) loose bearing plates and four (4) hot dipped galvanized hex head steel machine bolts and nuts. All bearing plates shall be hot dipped galvanized.

A 1/2"-13 UNC tapped hole shall be provided for grounding lug. The shaft shall have no longitudinal or circumferential welds except at the lower end joining the shaft to the base and shall be 8" x 4.5" x 25'-9" and be 6063 Alloy T-6 with minimum wall thickness .188".

An opening shall be furnished near the top of the shaft to provide a cable entrance from the shaft into the bracket arm. A special cast adapter shall be welded into this opening, providing a smooth cable guide for wiring and a support for the attaching plate which is welded to the bracket arm. The top of the shaft shall be equipped with a cast aluminum removable pole top held securely in place by means of set screws.

The 6' bracket arm shall be spun aluminum, tapered elliptical, with a 2" pipe size tenon incorporated into the luminaire end.

Four (4) 1" x 40" high-strength, hot dipped galvanized, steel anchor bolts, each fitted with a hex nut, shall be furnished with the poles. Each anchor bolt shall have a 4" "L" bend at the bottom end and be threaded at the top end. Threaded ends and all nuts shall be galvanized. All hardware (bolts, nuts and washers - but not including anchor bolts) not otherwise specifically designated in this specification, shall be aluminum or stainless steel (at the option of the supplier).

All materials shall be furnished in natural aluminum color. Pole shafts shall be furnished with polished surface.

Shaft and bracket arm assembly shall be tire-wrapped with a heavy water resistant paper for protection during shipment and installation.

The complete pole shall be an approved equal in design, quality and performance to Hapco Company 23-585 (6' bracket).

III. Installation

The poles and bases shall be set on the foundations and securely anchored to the anchor rods so that the handhole is at right angles to the curb. Bases shall be properly plumbed by means of shims.

IV. Quotation

The aluminum poles furnished and erected as hereinbefore specified shall be quoted on as a unit price each in the appropriate places of this document.